Fuels Automated System (FAS)

Hank Marrangoni

Program Manager

June 1996

PURPOSE

To provide
an overview of
Fuels Automated System.
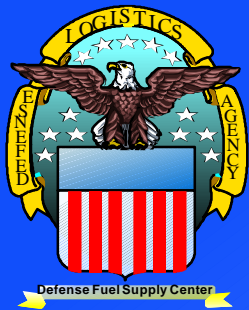
MISSION NEED

◆ **Implement PBD 735:**

    ❖ **Centralized fuel acquisition**

    ❖ **Elimination of intermediate/retail levels of supply**

    ❖ **Eliminate service stock funds**

    ❖ **Direct delivery to consumer**

◆ **A system that supports:**

    ❖ **procurement**   **-- storage**

    ❖ **distribution**   **-- inventory control**

    ❖ **funds accounting**   **-- inventory optimization**
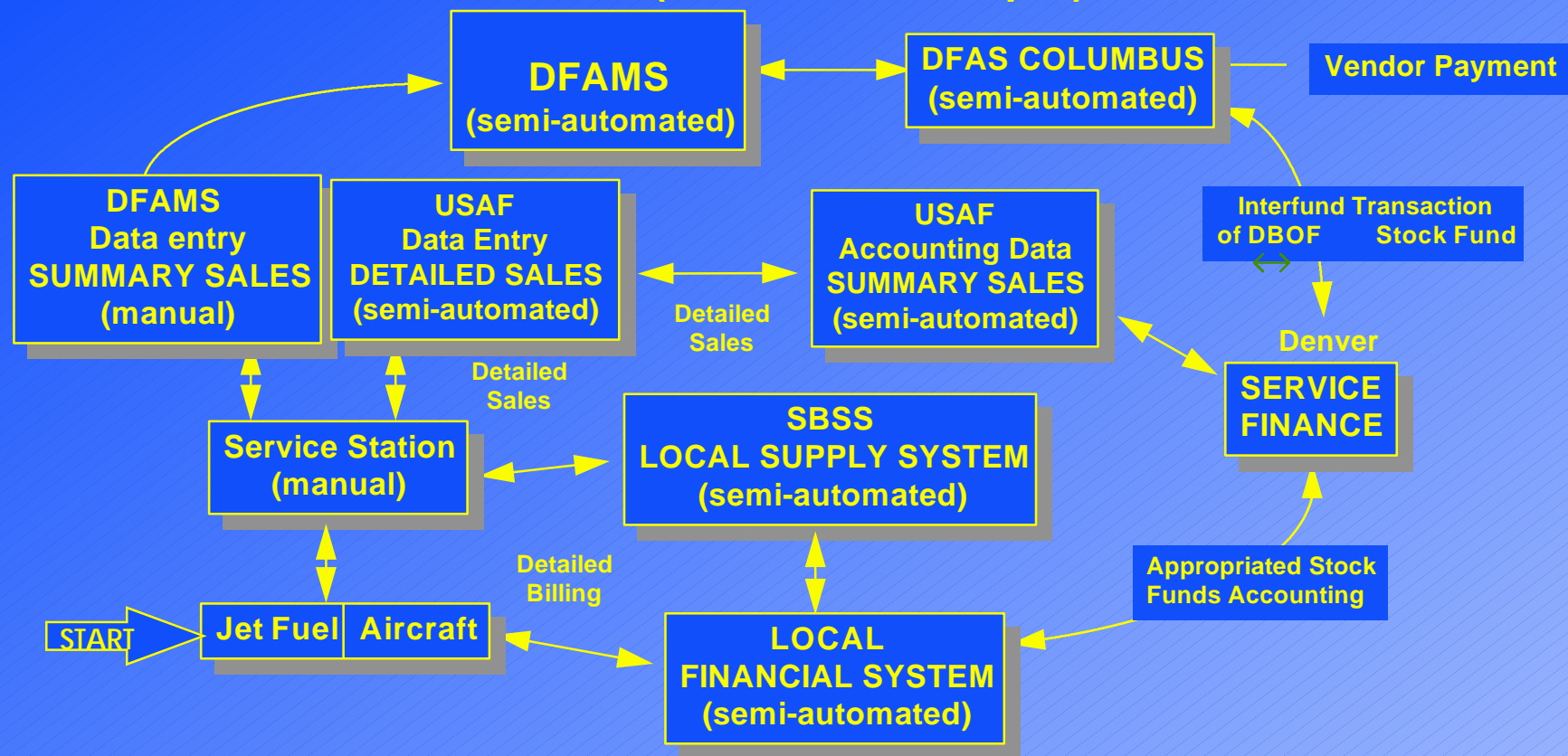
PARTNERING FOR SUCCESS

- **DLA Systems Design Center**
- **Procurement CIM Center (SPS/DPACS)**
- **Defense Finance and Accounting Service (DFAS)**
- **Military Services**
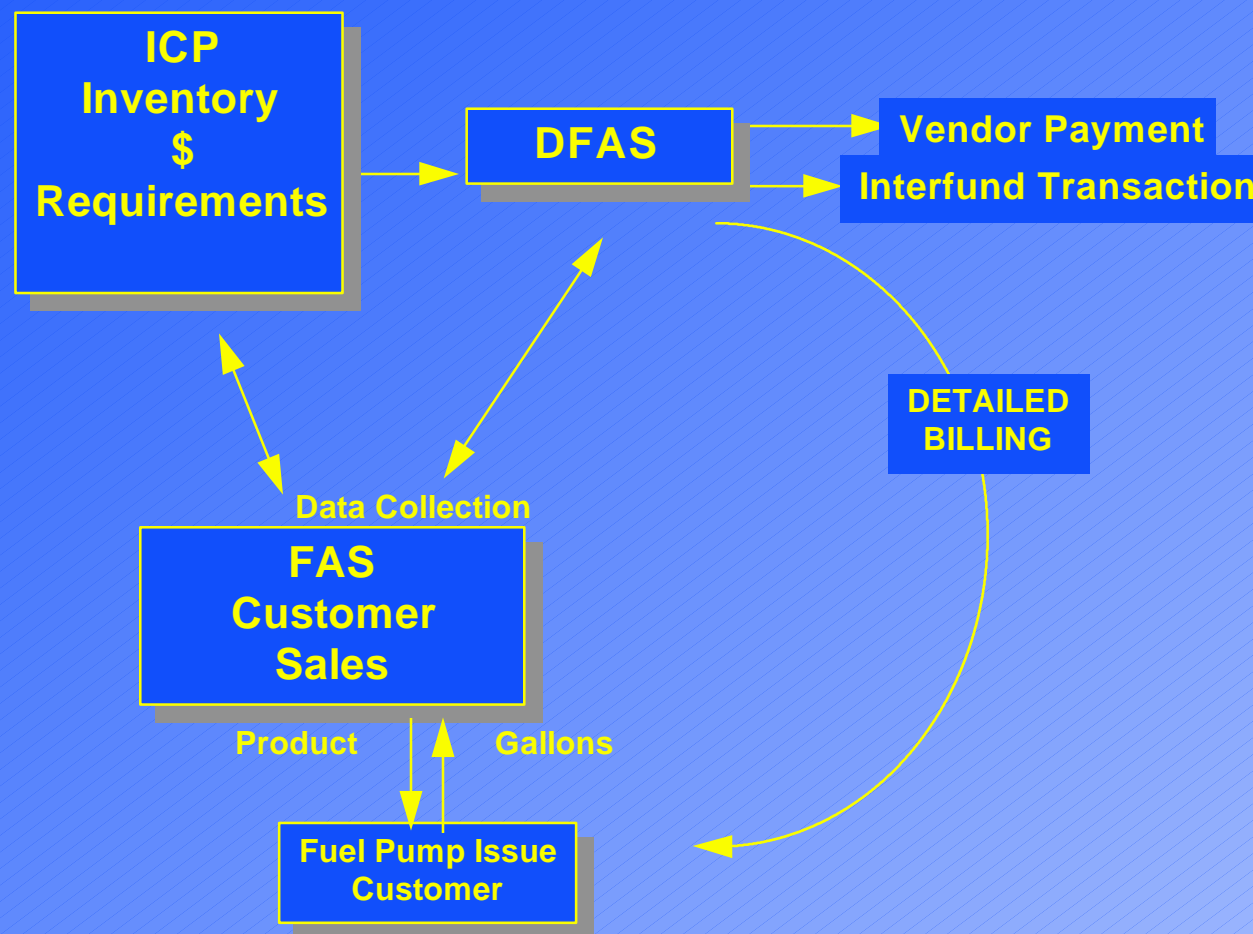- **Software Vendors**
- **Trading Partners**

MISSION NEED

CURRENT BUSINESS PROCESS
(Air Force Example)

```
         DFAMS                    DFAS COLUMBUS          Vendor Payment
     (semi-automated)            (semi-automated)
```

```
   DFAMS          USAF           USAF                Interfund Transaction
 Data entry     Data Entry     Accounting Data       of DBOF    Stock Fund
SUMMARY SALES  DETAILED SALES   SUMMARY SALES
  (manual)    (semi-automated) (semi-automated)           Denver
                                                       SERVICE
                  Detailed                             FINANCE
                   Sales
   Detailed
    Sales
                      SBSS
 Service Station   LOCAL SUPPLY SYSTEM
   (manual)        (semi-automated)
                                                    Appropriated Stock
                  Detailed                          Funds Accounting
                   Billing
START  Jet Fuel Aircraft        LOCAL
                            FINANCIAL SYSTEM
                            (semi-automated)
```

PROPOSED ENVIRONMENT

ICP Inventory $ Requirements

DFAS

Vendor Payment

Interfund Transaction

DETAILED BILLING

Data Collection

FAS Customer Sales

Product   **Gallons**

Fuel Pump Issue Customer

WHERE ARE WE NOW?

◆ **Selected Primary COTS Software Applications**

   ❖ **Whessoe-Coggins Fuel Manager**

   ❖ **Oracle Government Financial Suite**

   ❖ **Intergraph Facilities Management**

◆ **Completed Functional Requirement Void Analysis**

◆ **Preliminary Testing in DFSC Lab**

COTS PROVIDES

Interoperabiliy, Standardization and Openness

◆Queries (ANSI SQL)

◆File Transfers (TCP/IP)

◆E-Mail

◆World Wide Web

◆POSIX

◆End-to-End Security (C2)

ARCHITECTURE & INTEGRATION

Defense Fuel Supply Center

Notional configuration verified by Testing

ENTERPRISE LEVEL

Supply-Financial-Procurement Facilities-Decision Support

DFRs

**CINCs
Services
Subordinate Commands
Base/Post**

Commercial Trading Partners

(Keyboard) **BASE-LEVEL** (Electronic)

SOURCE

DATA

COLLECTION

FUEL OFFICER

DPW

SATELLITE ACTY

AUTOMATIC TANK GAUGING

MICROCHIP
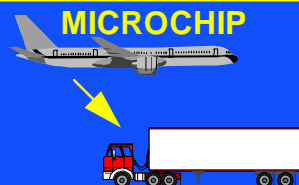
AUTO SERVICE STATION

Fuels Automated System

Enterprise
System/
Repository
- DFSC
- DFAS
- Services

Load Balancing Regional Servers and
Databases (Ramp Up Basis)

600 Fuel Base Level
Client/Server Network
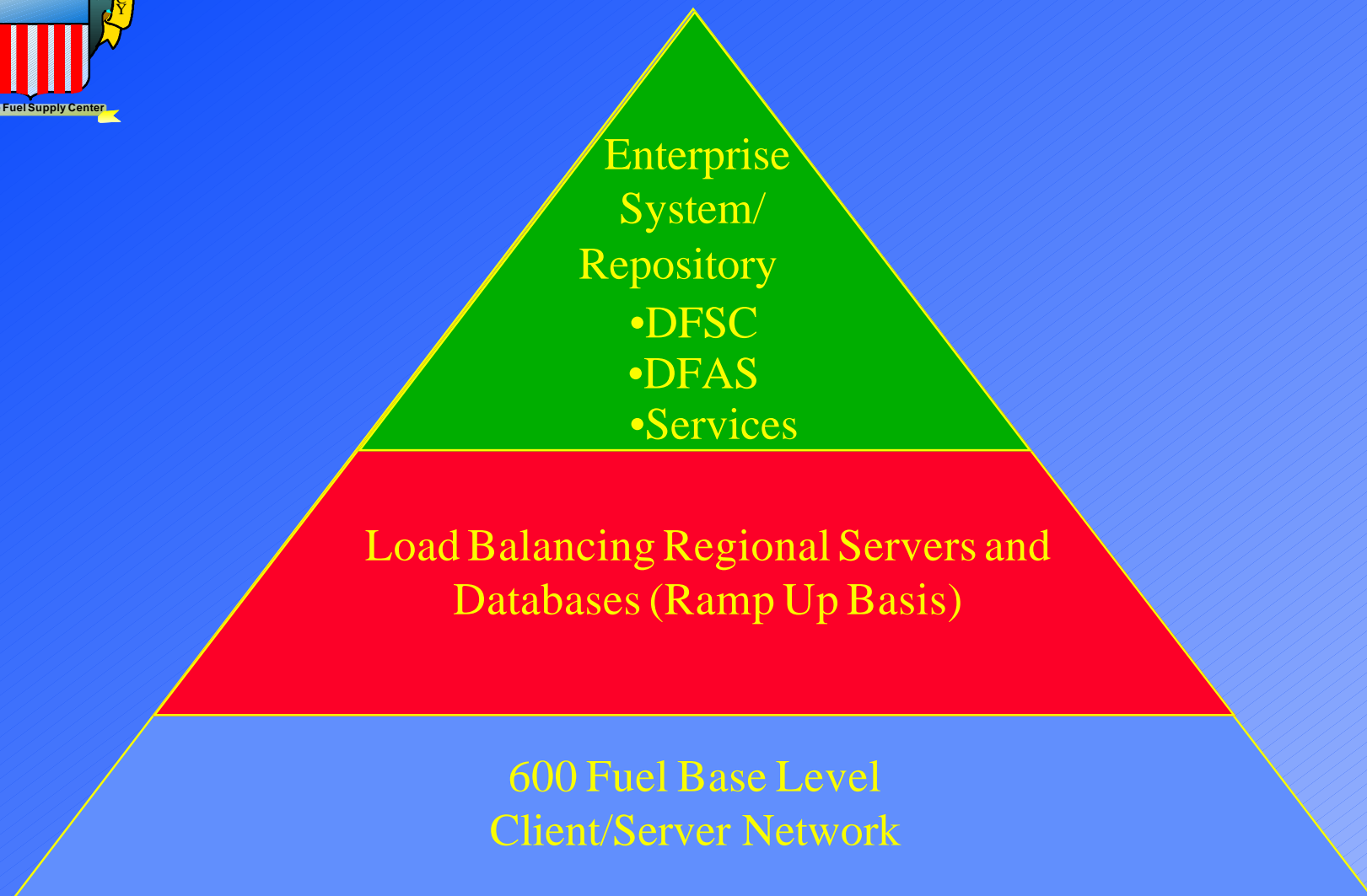
Base Level Configuration

Load Balancing
Server

Oracle

• **Windows NT**

• **FuelsManager**

-**Orders**	-**Issues**
-**Receipts**	-**Inventory**
-**ATG/AFSS**	-**Dispatch**
-**QC&I**	

FAS PC

Oracle

FAS
Workstation

FAS PC

FAS PC

FAS PC
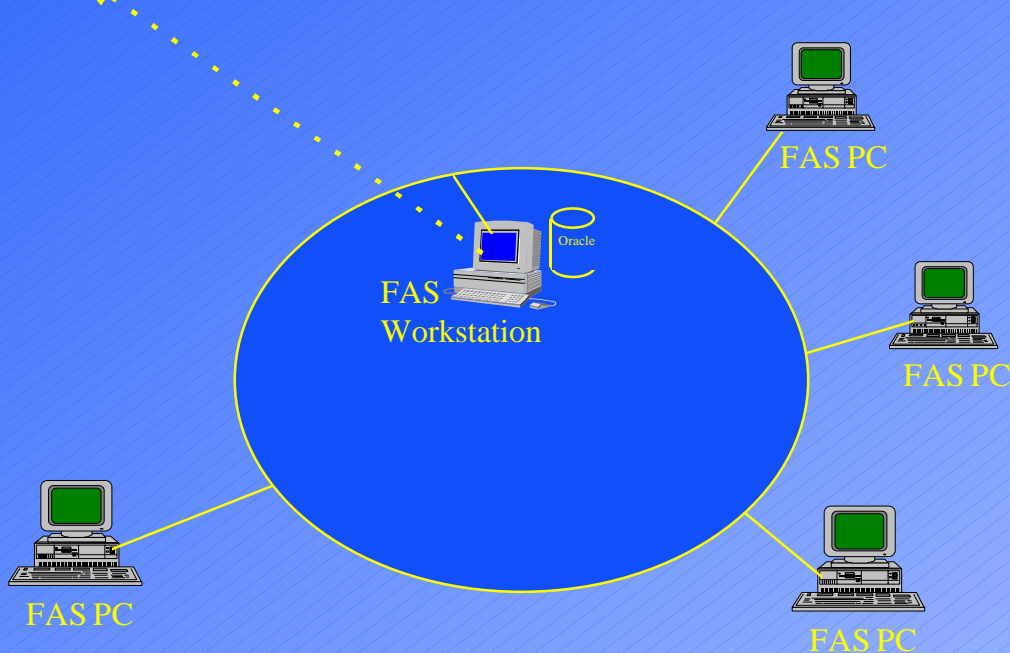
How a Fuels Transaction Occurs

Oracle

Enterprise Level

Accesses Financials /
Acquisition / Inventory /
Facilities Interface

Oracle

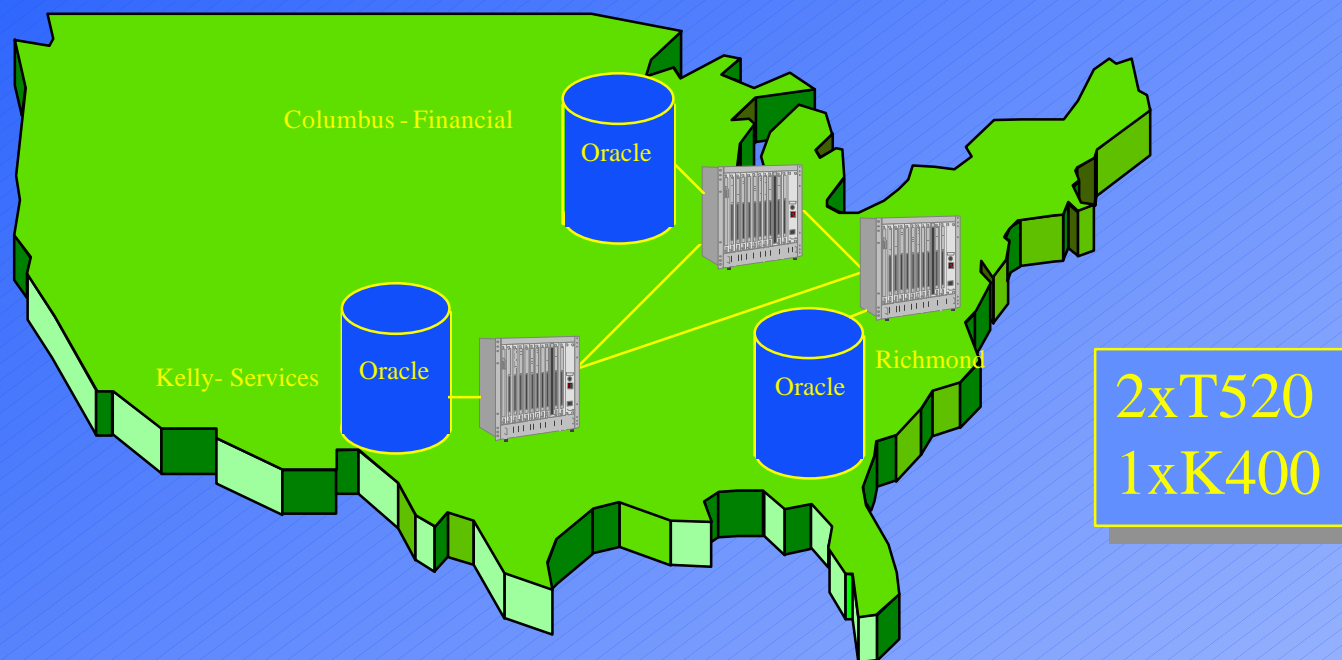**Load Balancing Server**

NT Workstation on Network
FuelsManager Transaction
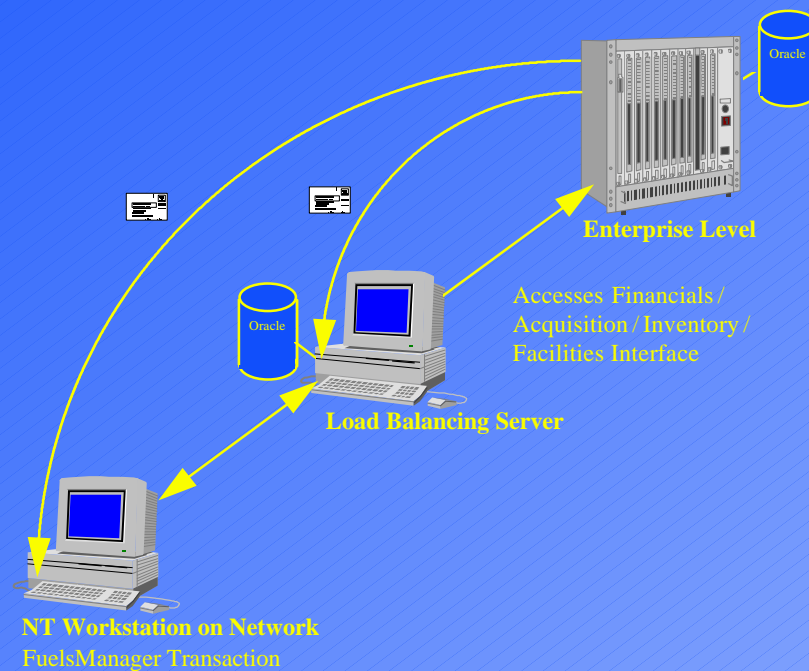
Three HP9000 Running:

- Oracle Financials
- Processing Fuel Manager Requests
- Providing Query & Open I/Fs

Columbus - Financial

Oracle

Oracle

Kelly- Services

Oracle

Richmond

2xT520
1xK400

Load Balancing Servers

Columbus - DFAS

Oracle

Kelly - Services

Oracle

Oracle

Richmond - DFSC

Enterprise Database

Oracle

DISN

Oracle

Oracle

FAS Server

FAS Server

FAS Server

FAS Server

FAS Server

FAS Server

FAS Server

Oracle
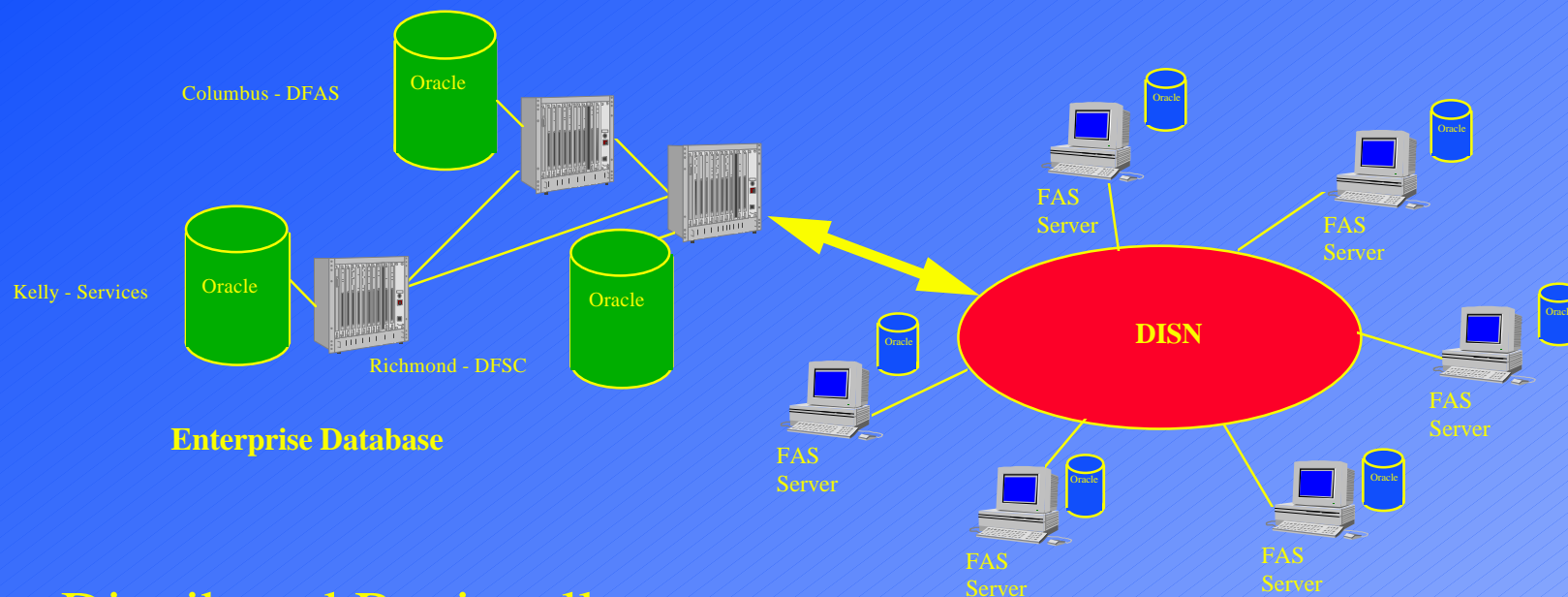
Oracle

Oracle

- Distributed Regionally

- Incrementally Added as Required

- Each Running on Oracle Database

FAS ARCHITECTURE PROVIDES

◆Open Relational Database

◆Distributed Data

◆Browser Tools for Ad Hoc Queries

◆Reciprocal

◆Load Balancing

◆Up to 24 Hours Stacking

◆Site Hardening

FAS INCREMENTAL DEPLOYMENT

◆Increment 1: Base Level

◆Increment 2: Core Enterprise

◆Increment 3: Facilities Management

INCREMENT 1
BASE LEVEL TESTING

◆ **Air Force - 4 Sites**

    ❖ **Barksdale - DT Completed May 17**

    ❖ **IOT&E - Jul 9 - 12**

◆ **Navy - 4 Sites**

    ❖ **NAS North Island - DT Jun 6 -14**

    ❖ **IOT&E NAS Norfolk - Jul 30 - Aug 2**

◆ **Army - 4 Sites**

    ❖ **Fort Dix - DT Aug 5 - 9**

    ❖ **IOT&E Fort Hood - Sep 10 - 13**

Base-Level Test Sites

• RAF Mildenhall, UK

◆ Army

  ❖ PAANG, PA

  ❖ Ft. Dix, NJ

  ❖ Ft. Benning, GA

  ❖ Ft. Hood, TX

◆ Navy/Marine

  ❖ Norfolk, VA Complex -   NAS Norfolk
                Craney Island
                Little Creek Amphib.

  ❖ NAS North Island, CA

  ❖ MCAS Cherry Point, NC

Staten Island, NY DFSP
Ft. Dix, NJ
Jacksonville, NJ DFSP
PA ARNG, PA
Nellis, NV AFB
NAS Norfolk, VA
Altus, OK AFB
MCAS Cherry Point, NC
Ft. Benning, GA
Charleston, SC
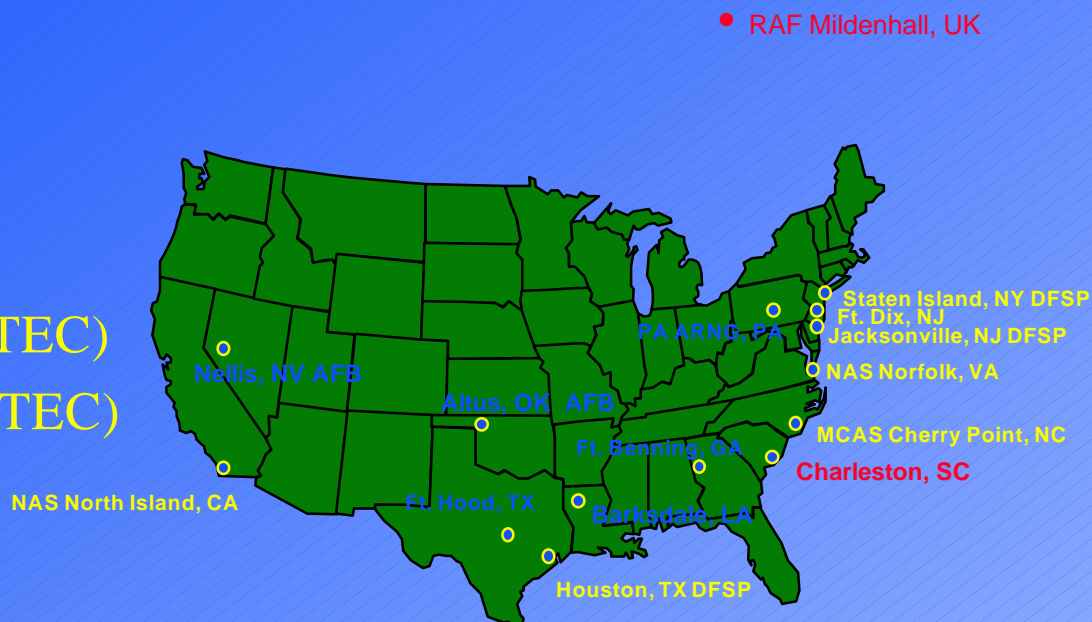NAS North Island, CA
Ft. Hood, TX
Barksdale, LA
Houston, TX DFSP

Base-Level Test Sites Cont'd

◆ Air Force

❖ Barksdale AFB, LA

❖ RAF Mildenhall, UK

❖ Altus AFB, OK (AFOTEC)

❖ Nellis AFB, NV (AFOTEC)

◆ DFSC (DFSP)

❖ Staten Island, NY

❖ Jacksonville, NJ

❖ Charleston, SC

❖ Houston, TX

● RAF Mildenhall, UK

Staten Island, NY DFSP
Ft. Dix, NJ
Jacksonville, NJ DFSP
NAS Norfolk, VA
PA ARNG, PA
Nellis, NV AFB
Altus, OK AFB
MCAS Cherry Point, NC
Ft. Benning, GA
Charleston, SC
NAS North Island, CA
Ft. Hood, TX
Barksdale, LA
Houston, TX DFSP

INCREMENT 2
CORE ENTERPRISE LEVEL TESTING

◆ Missile Fuels

   ❖ Started April 15

   ❖ Testing August 15

◆ Bunkers

   ❖ Started April 15

   ❖ Testing August 22

◆ Production Targeted for October 1

◆ Bulk Ops Analysis Began June 3

INCREMENT 3
FACILITIES MANAGEMENT TESTING

◆Enterprise

❖Started May 1

❖Testing September 17